KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruci	tions on Re	verse Side))				
Open Flow			Test Date:				4.51	No. 45					
Deliverabilty			7/16/14				API No. 15 181-20451-01 00						
Company		ources, Inc					Lease Bowma	n			21-0	Well No	umber
			Section 8				RNG (E/	W)		Acres Attributed 80			
Field Goodland				Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.					
Completion 10/23/20		_			Plug Bac 3122'	k Total Dept	th		Packer S	Set at			
Casing S 4 1/2"	ize		ight .5#		Internal Diameter 4.000		Set at 3122'		Perforations 3052'		то 3067'		
Tubing S NONE	ize	We	eight		Internal Diameter Set at			Perfo	rations	To			
Type Con Single ((Describe) onal)			Type Flui Dry Ga	d Production	n		Pump Ur Flowin	nit or Traveling		s (No	
Producing Annulus	•	Annulus / Tu	bing)		% C	arbon Dioxi	de		% Nitrog	en	.6	Gravity -	
Vertical E	Depth(H)				Pressure Taps Flange						(Mete	er Run) (F	rover) Size
Pressure	Buildup	: Shut in _	7-15	2	0 14 at 4	:25	(AM)(PM)) Taken_7-	16	20	14 at 4:40		(AM) (PM)
Well on L	·	Started _									14 at 5:25		(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Sh	ut-in 24	Hours
Static / Dynamic Property	Dynamic Size Prover Pressure		Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psla		l '		id Produced (Barrels)	
Shut-In							13	27.4					
Flow							8	22.4			24	0	
		Circle one:				FLOW STR		IBUTES					Flowing
Plate Coeffictient (F _b) (F _p) Mcfd		Meter or Prover Pressur psia	re	Press Extension ✓ P _m x h	Grav Fact	tor 3	Flowing Temperature Factor F ₁₁	Fa	riation ictor pv	Metered Flor R (Mcfd)	w GO (Cubic Barr	Feet/	Fluid Gravity G _m
		<u> </u>	_							34			Ţ
					(OPEN EL	OW) (DELIV	EDARII ITY	CALCIII	ATIONS				
(P _c) ² =		: (P)² ≈	:	•			P _c - 14.4) +		:		$(P_a)^2 = 0.5$ $(P_a)^2 =$	207
(P _s) ² -	P _a) ²	(P _c) ² - (P _w) ²	Ch	1. P _c ² -P _a ² 2. P _c ² -P _d ²			Backpre	essure Curve ope = "n" - or		LOG	Antilog	C	lpen Flow liverability s R x Antilog
	. 0/		divi	ided by: P _c ² -P _w		P _c ² -P _w ²		dard Slope	- 		<u> </u>	 -	(Mcfd)
-	_		-		+		 	_	+-	_		+-	
Open Flo	w			Mcfd @ 14.	65 psia		Delivera	bility		_	Mcfd @ 14.65	psia	
The	undersiç			pehalf of the	e and correc	t. Executed	I this the _2			ne above repo	ort and that he	has know	wledge of 20 14
		Witn	ess (if a	ny)			5 2015		Jan	WWY Por	Company		_/_
	_	For 0	commiss	ion			01.		_	Che	ecked by		

$\dot{m{r}}$
I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Bowman 21-08H
gas well on the grounds that said well:
is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No. is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 12/23/14
Received KANSAS CORPORATION COMMISSION FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS Signature:

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

W2283 Bowman 21-08H North Goodland Goodland None July-14

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	7	20	34	0	
7/2/2014	7	20	34	0	
7/3/2014	7	20	34	0	
7/4/2014	7	20	34	3	
7/5/2014	7	20	34	0	
7/6/2014	7	20	34	0	
7/7/2014	7	20	34	0	
7/8/2014	7	20	34	0	
7/9/2014	7	20	34	0	
7/10/2014	7	20	34	0	
7/11/2014	7	20	34	0	
7/12/2014	7	20	34	0	
7/13/2014	7	20	34	0	
7/14/2014	7	20	34	0	
7/15/2014	8	21	32	3	shut in for state
7/16/2014	11	24	0	24	
7/17/2014	13	26	0	24	opened up
7/18/2014	8	21	43	0	
7/19/2014	8	21	42	0	
7/20/2014	8	21	39	0	
7/21/2014	8	21	37	0	
7/22/2014	8	21	37	0	
7/23/2014	8	21	37	0	
7/24/2014	8	21	37	0	
7/25/2014	8	21	37	0	
7/26/2014	8	21	37	0	
7/27/2014	8	21	37	0	
7/28/2014	8	21	37	0	
7/29/2014	8	21	37	0	
7/30/2014	7	20	37	0	
7/31/2014	7	20	37	0	

Total 1039

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CONSERVATION DIVISION WICHITA, KS

W2283 Bowman 21-08H North Goodland Goodland None August-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
8/1/2014		8	21	34	0	
8/2/2014		8	21	34	0	
8/3/2014		8	21	34	0	
8/4/2014		8	21	34	0	•
8/5/2014		8	21	34	0	
8/6/2014		8	21	34	0	
8/7/2014		8 :	21	34	0	
8/8/2014		8 :	21	34	3	
8/9/2014		8	21	34	0	
8/10/2014		8 :	21	34	0	
8/11/2014		8	21	34	0	
8/12/2014		8	21	34	0	
8/13/2014		8 :	21	34	0	
8/14/2014		8	21	34	0	
8/15/2014		8	21	34	0	
8/16/2014		8	21	34	0	
8/17/2014		8 :	21	34	0	
8/18/2014		8	21	34	0	
8/19/2014		8	21	34	0	
8/20/2014		8	21	34	2	
8/21/2014		8	21	34	0	
8/22/2014		8	21	34	0	
8/23/2014		8	21	34	0	
8/24/2014		8	21	34	0	
8/25/2014		8 :	21	34	0	
8/26/2014		7	20	35	0	
8/27/2014		7	20	35	0	
8/28/2014		7	20	35	0	
8/29/2014		7	20	35	0	
8/30/2014		7	20	35	0	
8/31/2014		7	20	35	0	

Total 1060

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CONSERVATION DIVISION WICHITA, KS

W2283 Bowman 21-08H North Goodland Goodland None September-14

	Casing			HRS	REMARKS
DATE	<u>PS</u> I	STATIC	MCF	DOWN	(Maximum length 110 characters)
9/1/2014		7 20	35	0	
9/2/2014		7 20	35	0	
9/3/2014		7 20	35	0	
9/4/2014		7 20	35	0	
9/5/2014		7 20	35	0	
9/6/2014		7 20	35	0	
9/7/2014		7 20	35	0	
9/8/2014		7 20	35	0	
9/9/2014		7 20	35	0	
9/10/2014		7 20	34	0	
9/11/2014		7 20) 34	0	
9/12/2014		7 20	34	0	
9/13/2014		7 20	34	0	
9/14/2014		7 20	34	0	
9/15/2014		7 20	34	0.5	
9/16/2014		7 20	34	0	
9/17/2014		7 20	34	0	
9/18/2014		7 20) 34	0.5	
9/19/2014		7 20	34	0	
9/20/2014		7 20	34	0	
9/21/2014		7 20	34	0	
9/22/2014		7 20	34	0	
9/23/2014		7 20	34	0	
9/24/2014		7 20	33	0	
9/25/2014		7 20	33	0	
9/26/2014		7 20	33	0	
9/27/2014		7 20	33	0	
9/28/2014		7 20	33	0	
9/29/2014		7 20	33	0	
9/30/2014		7 20	33	0	
10/1/2014				0	

Total 1022

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